

Figure 1

**A. Nucleic acid encoding human Cloaked-2 polypeptide with signal peptide (SEQ ID NO:1)**

1 TACTGGAAAGGTGGCGTGCCTCCTCTGGCTGGTACCC**ATG**CAGCTCCACT  
51 GGCCCTGTGTCCTCGTCTGGCTGGTACACACAGCCTTCGGTGTAGTGG  
101 **AGGGCCAGGGGTGGCAGGGGTTCAAGAATGATGCCACGGAAATCATCCCC**  
151 GAGCTCGGAGAGTACCCCGAGCCTCACCGGAGCTGGAGAACACAAGAC  
201 CATGAACCGGGCGGAGAACGGAGGGCGGCTCCCCACCACCCCTTGAGA  
251 CCAAAGACGTGTCCTGGAGTACAGCTGCGCGAGCTGCACTTCACCCGCTAC  
301 GTGACCGATGGGGCGTGGCCGAGCGCAAGCGGTCAACCGAGCTGGTGTG  
351 CTCCGGCCAGTGGGGCCCGCGCGCTGCTGCCAACCGCATGGGCCGG  
401 GCAAGTGGTGGCGACCTAGTGGGCCGACTTCCGCTGCATCCCCGACCG  
451 TACCGCGCGCAGCGCGTGCAGCTGCTGTGTCGGTGGAGGGCGCCCG  
501 CGCGCGCAAGGTGCGCCTGGCTCGTGCAGGTGCAAGCGCTCACCC  
551 GCTTCCACAAACAGTCGGAGCTCAAGGACTTCGGGACCGAGGCCGCTCGG  
601 CCGCGAGAAGGGCCCGGAAGCCGCGGCCCGCGCCCCGGAGCGCCAAGGCCAA  
651 CCAGGGCCGAGCTGGAGAACGCC**TAG**AGGCCGCCGCGCCCTCCCC  
701 CGCGCGGGCGCCCCGGCCCTGAACCCCGGCCACATTCTGTCCCTCTGC  
751 GCGTGGTTT

B. Human Cloaked-2 polypeptide most likely mature form (SEQ ID NO:2)

1 QGWQAFKNDATEIIPELGEYYPEPPPELENNKTMNRAENGGRPPHHFETK  
51 DVSEYSCRELHFTRYVTDGP**CS**AKPVTELVCSGQCGPARLLPNAIGRKG  
101 WWRPSGPDFRCIPDRYRAQRVQLL**CPG**GEAPRARKVRLVASCKCKRLTRF  
151 HNQSELKDFGTEAARPQKGRKPRPRARSAKANOAELENAY

C. Human Cloaked-2 polypeptide with signal peptide (SEQ ID NO:5)

1 MQLPLALCLVCLLVHTAFRVVEGQGWQAFKNDATEIIPELGEYPEPPPEL  
51 ENNKTLMNRAENGGRPPHHPFETKDVSEYSCRELFTRYVTDGPCRSAKPV  
101 TELVCSGQCGPARLLPNAIGRGKWWRPSGPDFRCIPDRYRAQRVQLLCPG  
151 GEAPRARKVRLVASCKCKRLTRFHQNQSELKDFGTEARPQKGRKPRPRAR  
201 SAKANOAELENAY

Figure 2A. Nucleic acid encoding mouse Cloaked-2 polypeptide with signal peptide (SEQ ID NO:3)

1 **ATG**CAGCCCTCACTAGCCCCGTGCTCATCTGCCCTACTTGTGCACGCTGC  
 51 CTTCTGTGCTGTGGAGGGCCAGGGGTGGCAAGCCTCAGGAATGATGCCA  
 101 CAGAGGTCACTCCAGGGCTTGGAGAGTACCCCCGAGCCTCCCTGAGAAC  
 151 AACAGACCATGAACCGGGCGGAGAATGGAGGAGACCTCCCCACCATCC  
 201 CTATGACGCCAAAGATGTCTCGAGTACAGCTCCGAGCTGCACTACA  
 251 CCCGCTTCCCTGACAGACGGCCATGCCGAGGCCAAGCCGGTACCGAG  
 301 TTGGGTGTGCTCCGGCCAGTGCAGGCCCGCGCGGGTGTGCCCCAACGCCAT  
 351 CGGGCGCGTGAAGTGGTGGCGCCGAACGGACCGGATTCCGCTGCAATCC  
 401 CGGATCGCTACCGCGCGCAGCGGGTGCAGCTGCTGTGCCCCGGGGCGCG  
 451 GCGCCGCGCTCGCGCAAGTGCCTGGTGGCCTCGTGCAGTGCAGCG  
 501 CCTCACCCGCTTCCACAACCAGTCGGAGCTCAAGGACTTCGGGGCGAGA  
 551 CGGGCGCGCCCGAGAAGGGTGCAGACCCCCGGGGGGGGGGAGCC  
 601 AAAGCCAACCAGGCGGAGCTGGAGAACGCTACT**TAG**

B. Mouse Cloaked-2 polypeptide most likely mature form (SEQ ID NO:4)

1 QGWQAFRNDATEVIPGLGEYPEPPPEENNQTMNRAENGGRPPHHPYDAKDV  
 51 SEYS**CRELHYTRFLTDGP**CRSAKPVTEL**VCSQCGPARLLPNAIGRVKWW**  
 101 RPNGPDFRC**I**PDRYRAQRVQLL**CPGGAPRSRKVRLVASCK**CKRLTRFHN  
 151 QSELKDFGPETARPQKGRKPRPGARGAKANQAELENAY

C. Mouse Cloaked-2 polypeptide with signal peptide (SEQ ID NO:6)

1 MQPSLAPCLICLLVHAAFCAVEGQGWQAFRNDATEVIPGLGEYPEPPPENNQTMNRAENGGRPPHHPYDAKDVSEYS**CRELHYTRFLTDGP**CRSAKPVTEL**VCSQCGPARLLPNAIGRVKWW**RPNGPDFRC**I**PDRYRAQRVQLL**CPGGAPRSRKVRLVASCK**CKRLTRFHNQSELKDFGPETARPQKGRKPRPGARGAKANQAELENAY

Figure 3

GAP of: Human Cloaked-2 check: 5775 from: 1 to: 213  
 to: Mouse Cloaked-2 check: 9489 from: 1 to: 211

Symbol comparison table:  
 /GCGDISK/gcg10/gcgcore/data/rundata/blosum62.cmp  
 CompCheck: 6430

Gap Weight: 8 Average Match: 2.912  
 Length Weight: 2 Average Mismatch: -2.003  
 Quality: 1028 Length: 213  
 Ratio: 4.872 Gaps: 1  
 Percent Similarity: 91.469 Percent Identity: 88.152

Match display thresholds for the alignment(s):

| = IDENTITY  
 : = 2  
 . = 1

Human Cloaked-2 (SEQ ID NO: 5) x  
Mouse Cloaked-2 (SEQ ID NO: 6)

1 MQLPLALCLVCLLVHTAFRVVEGQGWQAFKNDATEIIPELGEYPEPEPPP 50  
 ||| ||| :|||| ||| ||| ||| :|||| :||| ||| ||| |||  
 1 MQPSLAPCLICLLVHAFCAVEGQGWQAFRNDATEVIPGLGEYPEPPP.. 48

51 ENNKTMNRAENGGRPPPHPFETKDVSEYSCRELHFTRYVTDGPCRSAKPV 100  
 ||||.||||| :||| :||| ||| :||| :||| .||| ||| |||  
 49 ENNQTMNRAENGGRPPHHPYDAKDVSEYSCRELHYTRFLTDGPCRSAKPV 98

101 TELVCSGQCGPARLLPNAIGRGKWWRPSGPDFRCIPDRYRAQRVQLLCPG 150  
 ||| ||| .||| ||| .||| .||| ||| .||| ||| .|||  
 99 TELVCSGQCGPARLLPNAIGRVKWWRPNPGPDFRCIPDRYRAQRVQLLCPG 148

151 GEAPRARKVRLVASCKCKRLTRFHQNQSELKDFGTEAARPQKGRKPRPRAR 200  
 ||| .||| .||| .||| .||| .||| .||| .||| .||| .|||  
 149 GAAPRSRKVRLVASCKCKRLTRFHQNQSELKDFGPETARPQKGRKPRPGAR 198

201 SAKANQAELENAY 213  
 ||| .||| .||| .||| .||| .||| .||| .||| .||| .|||  
 199 GAKANQAELENAY 211

T00200 = 002002429860

Figure 4

GAP of: Human Cloaked-1 check: 1888 from: 1 to: 183  
to: Human Cloaked-2 check: 185 from: 1 to: 190

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Symbol comparison table:  
/GCGDISK/gcg10/gcgcore/data/rundata/blosum62.cmp  
CompCheck: 6430
```

Gap Weight: 8 Average Match: 2.912  
Length Weight: 2 Average Mismatch: -2.003

Quality: 335 Length: 196  
Ratio: 1.831 Gaps: 6

Percent Similarity: 52.542 Percent Identity: 42.938

Match display thresholds for the alignment(s):

| = IDENTITY  
: = 2  
. = 1

Human Cloaked-1 (SEQ ID NO: 25) x  
Human Cloaked-2 (SEQ ID NO: 2)